

**7.6.10 Format and Materials**

The construction plan shall be submitted to the Director of Works, in accordance with the established specifications for format, material and number of copies.

**7.6.20 Cover sheet**

The construction plan shall include a cover sheet containing:

- A. A key map, showing the relative location of the proposed subdivision to the nearest existing arterial street intersection.
- B. A title block, showing the title of the subdivision, the name and address of the owner, the name and address of the subdivider, the name and address of the engineer or engineering firm preparing the plan, the date of preparation, the scale, a graphic scale and the date of all revisions.
- C. An original engineer's seal and signature.

**7.6.30 Approved Preliminary Plan**

The construction plan shall include a copy of the approved preliminary plan.

**7.6.40 Composite Drainage Plan**

The construction plan shall include a composite drainage plan showing all improvements, including all proposed streets, easements, parks, storm sewers, ditches, hydraulic calculations, reserved areas and lot drainage and existing drainage areas designated in acres contiguous to the subdivision. This plan shall bear the engineer's seal and signature.

**7.6.50 Plan View and Profile**

The construction plan shall include a plan view and profile of all streets, ditches and swales in easements, paved rights-of-way and special ditches, and details of all structures, which are a part of the physical improvements in the subdivision. The plan view and profile shall include as many sheets as are necessary to show adequately all improvements. Each sheet shall contain a plan view and a profile, and it shall show the page number and the number of pages. Each sheet shall contain the engineer's seal and signature; however, the engineer's seal and signature shall not be required for the information described in part 1(h) below.

- A. The plan view shall show:
  - 1. The title of the subdivision
  - 2. The north point
  - 3. The latest revision date
  - 4. The name or designation and right-of-way and pavement widths of each street

5. The centerline of each proposed street, with stationing to one-hundredths of a foot at points of intersection; points of tangents, points of curves and street intersection, together with deflection angles, degree of curves, radii of curves, sub-tangent lengths and lengths of curves
  6. All proposed drainage structures, including manholes, catch basins, junction boxes, pipe storm drains, ditches and other drainage facilities, including headwalls
  7. The size, type and location of existing and proposed easements
  8. Landscape buffer area, as specified in **Chapter 10 Part 2** of the Land Development Code, Woodland Protection Area and existing Tree Canopy to be preserved as required by **Chapter 10 Part 1**.
  9. Location of bench marks with elevations referred to U.S.G.S. sea level datum
  10. A typical section of road
  11. Adjoining streets, drainage ways, or drainage structures affecting the design of the Subdivision
  12. Details of structures requiring special design
  13. Soundings if required
  14. Environmentally-constrained areas as defined in **Chapter 4 Part 6**
- B. The profile shall show:
1. Proposed road grades, designated by solid lines, with percent of grade and lengths of vertical curves
  2. The elevations of proposed road grades to one-hundredths of a foot every 100 feet on uniform grades, every fifty feet on vertical curves, and at the center of all street intersections
  3. The elevations and grades, of proposed roadway ditches not conforming to road grades
  4. The elevations, length and grades of other existing and proposed ditches, drainage structures, manholes, catch basins, junction boxes, pipe storm drains, and other drainage facilities, including headwalls
  5. Stationing, to be shown along the bottom of each sheet
  6. The original ground and final grade elevations, lettered at the proper station along the bottom of each sheet

7. The profile and stationing of adjoining roads, and all pertinent information on the alteration of all existing ditches or drainage
8. Cross section of proposed ditches

### **7.6.60 Cross Sections and Details**

The construction plan shall include:

- A. Cross Sections of proposed roadways at intervals of fifty feet or the equivalent thereof where special conditions exist as requested by the Director of Works.
- B. Cross sections at five foot intervals on abutting existing roadways showing roadways existing ditches, proposed ditches, and proposed sidewalk locations.
- C. Details of typical catch basins, manholes, drainage structures, junction boxes, and other incidental structures.

### **7.6.70 Certificate of Engineer/Land Surveyor**

Any revision on the construction plan during construction shall be pre-approved by the Director of Works and MSD. Following inspection of all improvements as built, including private roadways, the engineer/land surveyor shall submit a certificate in compliance with Section 9.40 and 9.41 hereof. The Director of Works and/or MSD may require as-built construction plans on an as needed basis prior to subdivision bond release.

### **7.6.80 Reference Monuments**

If the as-built plan has already been approved, a current certificate that all reference monuments have been installed shall be included.